

2010-10-25 [58049-00034] Sequence Listing_ST25
SEQUENCE LISTING

<110> Korea Research Institute of Bioscience and Biotechnology
CHOI, Inpyo

<120> Differentiation regulating agent containing gene which regulating

<130> 58049-00034

<140> 10/597,305
<141> 2006-07-19

<160> 49

<170> PatentIn version 3.5

<210> 1
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> M13 forward primer

<400> 1
gaccggcagc aaaatg 16

<210> 2
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> M13 reverse primer

<400> 2
caaaagggtc agtgct 16

<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> forward primer for gamma-parvin

<400> 3
ctctgaagga cccagcagtc 20

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer for gamma-parvin

<400> 4
gcagctgtag ggatagcctg 20

2010-10-25 [58049-00034] Sequence Listing_ST25

<210> 5
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> forward primer for Foxp1c

<400> 5
 cgaatctcca gaaaagcagc 20

<210> 6
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> reverse primer for Foxp1c

<400> 6
 aaatctggac tgtggttggc 20

<210> 7
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> forward primer for c-myc

<400> 7
 gcccgatgag gatattctgga 20

<210> 8
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> reverse primer for c-myc

<400> 8
 gaatcggacg aggtacagga 20

<210> 9
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> forward primer for KC1

<400> 9
 ggcaacgaga agatcaccat 20

<210> 10
 <211> 20

<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	reverse primer for KC1	
<400>	10	
	ccacattgac ctggcctact	20
<210>	11	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	forward primer for PA-PRP	
<400>	11	
	cttattgttg gtgctgcct	20
<210>	12	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	reverse primer for PA-PRP	
<400>	12	
	ggttggtcga ggagtgttgt	20
<210>	13	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	forward primer for IRAK	
<400>	13	
	gaagccttgc cagatagcag	20
<210>	14	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	reverse primer for IRAK	
<400>	14	
	gcaagacaag aaagcaaggg	20
<210>	15	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	

```

<220>
<223> forward primer for L10A

<400> 15
cacacattgg gcttcacaac                                20

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer for L10A

<400> 16
tgagttcaca ttccagcagc                                20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> forward primer for pre-pro-proteinase 3

<400> 17
acgtgcttct cctccagcta                                20

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer for pre-pro-proteinase 3

<400> 18
agggaacaga gctgactcca                                20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> forward primer for myeloblastosis oncogene

<400> 19
gaagaaagtg cctcaccagc                                20

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer for myeloblastosis oncogene

```

<400> 20		
gttcaagaac tgcgagggag		20
<210> 21		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> forward primer for CBP35		
<400> 21		
ctcctcctag tgcctacccc		20
<210> 22		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> reverse primer for CBP35		
<400> 22		
gtcacgactg atccccagtt		20
<210> 23		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> forward primer for IL-7 receptor		
<400> 23		
tgccagattc atgaggtgaa		20
<210> 24		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> reverse primer for IL-7 receptor		
<400> 24		
ggagagcaag cattccagac		20
<210> 25		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> forward primer for LPL		
<400> 25		
cagctgggcc taactttgag		20

2010-10-25 [58049-00034] Sequence Listing_ST25

<210> 26
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> reverse primer for LPL

 <400> 26
 ccacccctcag tcccagaaaa 20

 <210> 27
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> forward primer for ferritin H chain

 <400> 27
 gaccgagatg atgtggctct 20

 <210> 28
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> reverse primer for ferritin H chain

 <400> 28
 aaaagatgaa ggcagcctga 20

 <210> 29
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> forward primer for MMP 12

 <400> 29
 tttggagctc acggagactt 20

 <210> 30
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> reverse primer for MMP 12

 <400> 30
 gcttgccat atggaagaaa 20

 <210> 31
 <211> 20

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> forward primer for RGS

 <400> 31
 gcagcaacct agaagccatc 20

 <210> 32
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> reverse primer for RGS

 <400> 32
 tgtgagacgg caagaatgag 20

 <210> 33
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> forward primer for Serpina3G

 <400> 33
 ttcaacctca cagagacccc 20

 <210> 34
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> reverse primer for Serpina3G

 <400> 34
 gtaagcttgc ttccacctgc 20

 <210> 35
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> forward primer for P2Y

 <400> 35
 gccagaaact ggaagcgtag 20

 <210> 36
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> reverse primer for P2Y

<400> 36
 ggtcacgaaa ctctgaagcc 20

<210> 37
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> forward primer for lymphocyte-specific PTK

<400> 37
 gaatctgagc cgtaaggacg 20

<210> 38
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> reverse primer for lymphocyte-specific PTK

<400> 38
 ctgcataaag ccggactagc 20

<210> 39
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> forward primer for semaphorin 6A precursor

<400> 39
 aagccaccta gagcgatttg 20

<210> 40
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> everse primer for semaphorin 6A precursor

<400> 40
 gcttccagaa gatcacaggg 20

<210> 41
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> forward primer for CD122

<400> 41		
gtcgagctc ctctcagctg tgatggctac cata		34
<210> 42		
<211> 36		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> reverse primer for CD122		
<400> 42		
ggatcccaga agacgtctac gggcctcaaa ttccaa		36
<210> 43		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> forward primer for perforin		
<400> 43		
gtcacgtcga agtacttggt g		21
<210> 44		
<211> 21		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> reverse primer for perforin		
<400> 44		
aaccagccac atagcacaca t		21
<210> 45		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> forward primer for bata-actin		
<400> 45		
gtggggcgcc ccaggcacca		20
<210> 46		
<211> 24		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> reverse primer for beta-actin		
<400> 46		
ctccttaatg tcacgcacga tttc		24

2010-10-25 [58049-00034] Sequence Listing_ST25

<210> 47
 <211> 1425
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Mus musculus

<400> 47
 atggagagca aagccctgct cctggtggtc ctgggagttt ggctccagag ttgaccgcc 60
 ttccgaggag ggggtggccgc agcagacgca ggaagagatt tctcagacat cgaaagcaaa 120
 tttgccctaa ggacccctga agacacagct gaggacactt gtcattctcat tcctggatta 180
 gcagactctg tgtctaactg ccacttcaac cacagcagca agaccttcgt ggtgatccat 240
 ggatggacgg taacgggaat gtatgagagt tgggtgcca aacttgtggc cgccctgtac 300
 aagagagaac ctgactcaa tgtcattgta gtagactggt tgtatcgggc ccagcaacat 360
 tatccagtgt cagctggcta caccaagctg gtgggaaatg atgtggccag attcatcaac 420
 tggatggagg aggagtttaa gtacccccta gacaacgtcc acctcttagg gtacagcctt 480
 ggagcccatg ctgctggcgt agcaggaagt ctgaccaata agaaggtaa tagaattact 540
 ggtttggatc cagctgggccc taactttgag tatgcagaag ccccagtcg cttttctcct 600
 gatgacgctg attttgtaga tgtcttacac acatttacca gggggtcacc tggtcgaagt 660
 attgggatcc agaaaccagt ggggcatgtt gacatttatc ccaatggagg cactttccag 720
 ccaggatgca acattggaga agccatccgt gtgattgcag agagaggact cggagacgtg 780
 gaccagctgg tgaagtgtc gcattgagcg tccattcatc tcttcattga ctccctgctg 840
 aatgaagaaa accccagcaa agcatacagg tgcaactcca aggaagcctt tgagaaaggg 900
 ctctgcctga gttgtagaaa gaatcgctgt aacaatctgg gctatgagat caacaaggtc 960
 agagccaaga gaagcagcaa gatgtacctg aagactcgct ctcagatgcc ctacaaagtg 1020
 ttccattacc aagtcaagat tcacttttct gggactgaga atggcaagca acacaaccag 1080
 gccttcgaaa tttctctgta cggcacagtg gccgagagcg agaacattcc cttcacctg 1140
 cccgaggttt ccacaaataa aacctactcc ttcttgattt acacggaggt ggacatcgga 1200
 gaactgctca tgatgaagct taagtggatg agcgactcct acttcagctg gcccgactgg 1260
 tggagcagcc ccagcttcgt catcgagagg atccgagtga aagccggaga gactcagaaa 1320
 aaggtcatct tctgtgctag ggagaaagtt tctcatctgc agaagggaaa ggactcagca 1380
 gtgtttgtga aatgcatga caagtctctg aagaagtctg gctga 1425

<210> 48
 <211> 474
 <212> PRT
 <213> Artificial Sequence

2010-10-25 [58049-00034] Sequence Listing_ST25

<220>

<223> Mus musculus

<400> 48

Met Glu Ser Lys Ala Leu Leu Leu Val Val Leu Gly Val Trp Leu Gln
1 5 10 15

Ser Leu Thr Ala Phe Arg Gly Gly Val Ala Ala Ala Asp Ala Gly Arg
20 25 30

Asp Phe Ser Asp Ile Glu Ser Lys Phe Ala Leu Arg Thr Pro Glu Asp
35 40 45

Thr Ala Glu Asp Thr Cys His Leu Ile Pro Gly Leu Ala Asp Ser Val
50 55 60

Ser Asn Cys His Phe Asn His Ser Ser Lys Thr Phe Val Val Ile His
65 70 75 80

Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp Val Pro Lys Leu Val
85 90 95

Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn Val Ile Val Val Asp
100 105 110

Trp Leu Tyr Arg Ala Gln Gln His Tyr Pro Val Ser Ala Gly Tyr Thr
115 120 125

Lys Leu Val Gly Asn Asp Val Ala Arg Phe Ile Asn Trp Met Glu Glu
130 135 140

Glu Phe Lys Tyr Pro Leu Asp Asn Val His Leu Leu Gly Tyr Ser Leu
145 150 155 160

Gly Ala His Ala Ala Gly Val Ala Gly Ser Leu Thr Asn Lys Lys Val
165 170 175

Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro Asn Phe Glu Tyr Ala
180 185 190

Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala Asp Phe Val Asp Val
195 200 205

Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg Ser Ile Gly Ile Gln
210 215 220

Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn Gly Gly Thr Phe Gln
Page 11

225 230 235 240
 Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val Ile Ala Glu Arg Gly
 245 250 255
 Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser His Glu Arg Ser Ile
 260 265 270
 His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu Asn Pro Ser Lys Ala
 275 280 285
 Tyr Arg Cys Asn Ser Lys Glu Ala Phe Glu Lys Gly Leu Cys Leu Ser
 290 295 300
 Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr Glu Ile Asn Lys Val
 305 310 315 320
 Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys Thr Arg Ser Gln Met
 325 330 335
 Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile His Phe Ser Gly Thr
 340 345 350
 Glu Asn Gly Lys Gln His Asn Gln Ala Phe Glu Ile Ser Leu Tyr Gly
 355 360 365
 Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr Leu Pro Glu Val Ser
 370 375 380
 Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr Glu Val Asp Ile Gly
 385 390 395 400
 Glu Leu Leu Met Met Lys Leu Lys Trp Met Ser Asp Ser Tyr Phe Ser
 405 410 415
 Trp Pro Asp Trp Trp Ser Ser Pro Ser Phe Val Ile Glu Arg Ile Arg
 420 425 430
 Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile Phe Cys Ala Arg Glu
 435 440 445
 Lys Val Ser His Leu Gln Lys Gly Lys Asp Ser Ala Val Phe Val Lys
 450 455 460
 Cys His Asp Lys Ser Leu Lys Lys Ser Gly
 465 470

<210> 49
 <211> 860
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Mus musculus

<400> 49
 ccgcggtttc ctgcttcaac agtgcttgaa cggaacccgg tgctcgaccc ctccgacccc 60
 cgccggccgc ttcgagcctg agccctttgc aacttcgtcg ttccgccgct ccagcgtcgc 120
 caccgcgcct cgccccgccg ccaccatgac caccgcgtct ccctcgcaag tgcgccagaa 180
 ctaccaccag gacgcggagg ctgccatcaa ccgccagatc aacctggagt tgtatgcctc 240
 ctacgtctat ctgtctatgt cttgttattt tgaccgagat gatgtggctc tgaagaactt 300
 tgccaaatac tttctccacc aatctcatga ggagagggag catgccgaga aactgatgaa 360
 gctgcagaac cagcgaggtg gccgaatctt cctgcaggat ataaagaaac cagaccgtga 420
 tgactgggag agcgggctga atgcaatgga gtgtgcactg cacttggaag agagtgtgaa 480
 tcagtcacta ctggaactgc acaaactggc tactgacaag aatgatcccc acttatgtga 540
 cttcattgag acgtattatc tgagtgaaca ggtgaaatcc attaaagAAC tgggtgacca 600
 cgtgaccaac ttacgcaaga tgggtgcccc tgaagctggc atggcagaat atctctttga 660
 caagcacacc ctgggacacg gtgatgagag ctaagctgac ttccccaaag ccacgtgact 720
 ttactggtca ctgaggcagt gcatgcatgt caggctgcct tcatcttttc tataagttgc 780
 accaaaacat ctgcttaagt tctttaattt gtaccatttc ttcaaataaa gaattttggt 840
 acccaaaaaa aaaaaaaaaa 860